

JENSEN CREEK ACCLIMATION POND CONSTRUCTION PLANS

SECTION 16, TOWNSHIP 19 NORTH, RANGE 08 EAST, W.M.,
PIERCE COUNTY, WASHINGTON.



COVER SHEET
JENSEN CREEK
ACCLIMATION POND
PUYALLUP TRIBE OF INDIANS
PIERCE COUNTY, WASHINGTON

DAVID EVANS
AND ASSOCIATES INC.
3700 Pacific Hwy, East, Suite 311
Tacoma, Washington 98424
Phone: 253.922.9780



REVISIONS: APPD.

DATE: JUNE, 2011
DESIGN: AXHA
DRAWN: CDB
CHECKED:
REVISION
NUMBER:

SCALE:

PROJECT NUMBER:
PTOI00000011

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SHEET NAME

CV

SHEET 1 OF 10

PROJECT CONTACTS

CONSULTANTS

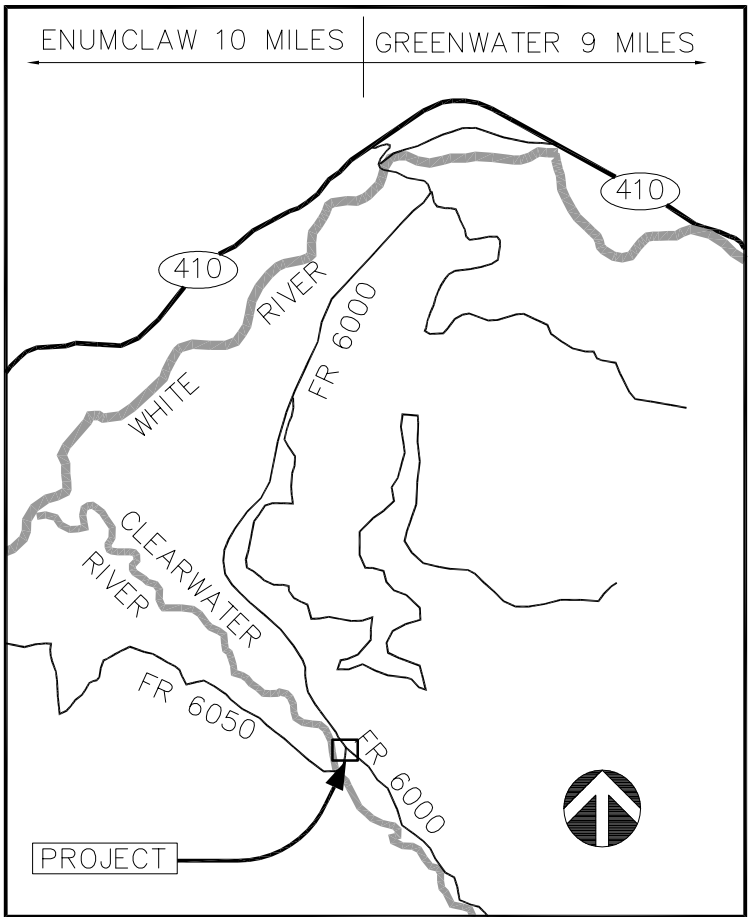
ENGINEER
DAVID EVANS AND ASSOCIATES, INC.
3700 PACIFIC HIGHWAY EAST,
SUITE 311
TACOMA, WASHINGTON 98424
PHONE: (253) 922-9780
CONTACT: MARC PUDISTS, P.E.

SURVEYOR
DAVID EVANS AND ASSOCIATES, INC.
3700 PACIFIC HIGHWAY EAST,
SUITE 311
TACOMA, WASHINGTON 98424
PHONE: (253) 922-9780
CONTACT: SEAN DOUTHETT, P.L.S.

PROPERTY OWNERS

PROPERTY OWNER
HANCOCK FOREST MANAGEMENT
ATTN: MR. ROBERT BASS
31716 CAMP 1 ROAD EAST
ORTING, WA 98360
PHONE: (360) 879-4200

PROJECT OWNER
PUYALLUP TRIBE OF INDIANS
FISHERIES DEPARTMENT
ATTN: MR. RUSS LADLEY
6824 PIONEER WAY EAST
PUYALLUP WA, 98371
PHONE: (253) 680-5560



VICINITY MAP
SCALE: 1"=1/2 MILE

HORIZONTAL CONTROL: NAD 83/91
VERTICAL CONTROL: NGVD 29



CALL BEFORE YOU DIG

Call: TOLL FREE

1-800-424-5555

PRELIMINARY
60% PLANS

EXISTING CONDITIONS MAP



NORTH

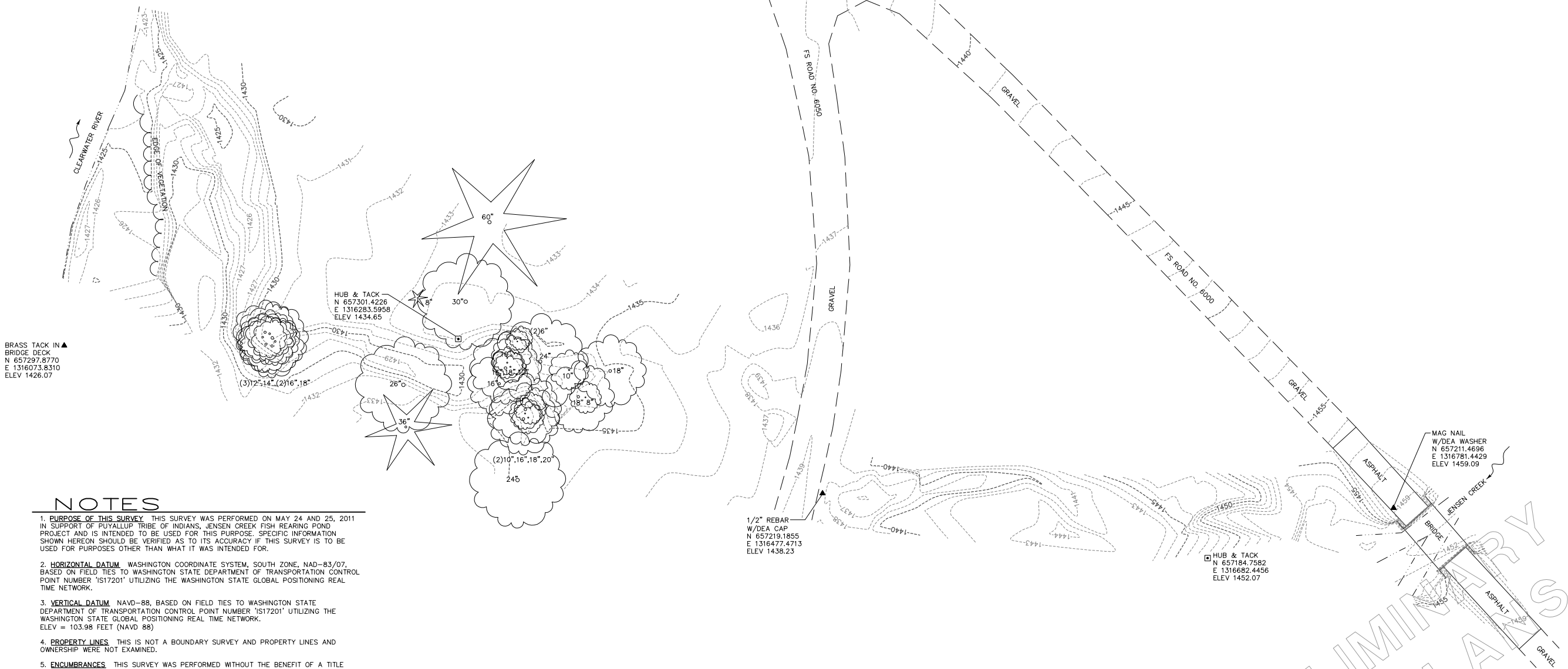
BASIS OF BEARING
WASHINGTON STATE PLANE COORDINATE SYSTEM
SOUTH ZONE, NAD 83/07



SCALE IN FEET
1" = 30'

LEGEND

- ▲ SURVEY CONTROL POINT (AS NOTED)
- SURVEY CONTROL POINT (AS NOTED)
- DECIDUOUS TREE
- ✱ CONIFEROUS TREE



NOTES

- PURPOSE OF THIS SURVEY.** THIS SURVEY WAS PERFORMED ON MAY 24 AND 25, 2011 IN SUPPORT OF PUYALLUP TRIBE OF INDIANS, JENSEN CREEK FISH REARING POND PROJECT AND IS INTENDED TO BE USED FOR THIS PURPOSE. SPECIFIC INFORMATION SHOWN HEREON SHOULD BE VERIFIED AS TO ITS ACCURACY IF THIS SURVEY IS TO BE USED FOR PURPOSES OTHER THAN WHAT IT WAS INTENDED FOR.
- HORIZONTAL DATUM.** WASHINGTON COORDINATE SYSTEM, SOUTH ZONE, NAD-83/07, BASED ON FIELD TIES TO WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CONTROL POINT NUMBER 'S17201' UTILIZING THE WASHINGTON STATE GLOBAL POSITIONING REAL TIME NETWORK.
- VERTICAL DATUM.** NAVD-88, BASED ON FIELD TIES TO WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CONTROL POINT NUMBER 'S17201' UTILIZING THE WASHINGTON STATE GLOBAL POSITIONING REAL TIME NETWORK. ELEV = 103.98 FEET (NAVD 88)
- PROPERTY LINES.** THIS IS NOT A BOUNDARY SURVEY AND PROPERTY LINES AND OWNERSHIP WERE NOT EXAMINED.
- ENCUMBRANCES.** THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, ACCORDINGLY, ANY EASEMENTS OR RESTRICTIONS OF RECORD WHICH MAY BE REVEALED IN A TITLE REPORT HAVE NOT BEEN INCLUDED HEREON.
- UNDERGROUND UTILITIES.** WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- CONTOUR INTERVAL.** 1 FOOT
- SUBSURFACE CONDITIONS.** WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- SENSITIVE AREAS.** WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 1-800-424-5555.** MUST BE CALLED NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS. (UP TO THREE TIMES THE COST OF REPAIRS TO THE SERVICE).

CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY CORRECTLY REPRESENTS A SURVEY MADE UNDER MY DIRECTION AND REPRESENTS THE ACTUAL SITE CONDITIONS ON MAY-25, 2010.

Sean M. Douthett
SEAN M. DOUTHETT, PLS 36796

JUNE 7, 2011
DATE



EXISTING CONDITIONS MAP
JENSEN CREEK
ACCLIMATION POND
PUYALLUP TRIBE OF INDIANS
PIERCE COUNTY, WASHINGTON

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REVISIONS: APPD.

DATE: JUNE, 2011
DESIGN:
DRAWN: SMD
CHECKED: MAP
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NUMBER:

SCALE:

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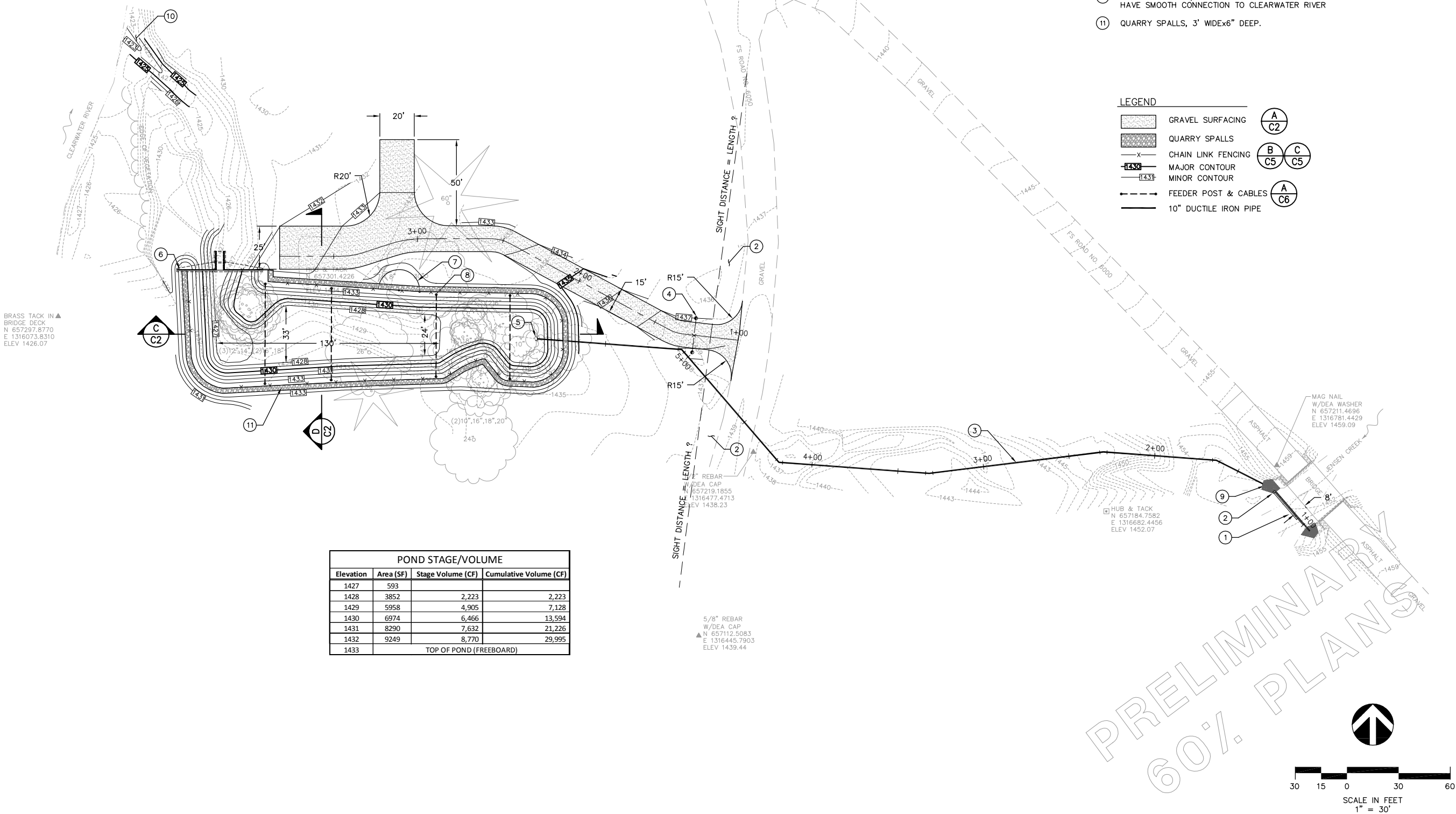
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SHEET NAME

SV1

SHEET 2 OF 10

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KEYNOTES:

- 20'-LONG STAINLESS STEEL SCREENED INTAKE
- CLEAR AREA FOR SITE DISTANCE
- 10" DIA. DUCTILE IRON PIPE
- 20' WIDE GATE
- POND INFLOW STRUCTURE
- REINFORCED CONCRETE OUTLET STRUCTURE WITH ALUMINUM SCREEN AND WOOD STOPLOGS
- 12' WIDE GATE
- AUTOMATIC FEEDER POSTS & CABLES, TYP
- NEW 10" GATE VALVE
- REMOVE LOG JAM/DEBRIS AND GRADE DITCH TO HAVE SMOOTH CONNECTION TO CLEARWATER RIVER
- QUARRY SPALLS, 3' WIDEx6" DEEP.

LEGEND

- GRAVEL SURFACING
- QUARRY SPALLS
- CHAIN LINK FENCING
- MAJOR CONTOUR
- MINOR CONTOUR
- FEEDER POST & CABLES
- 10" DUCTILE IRON PIPE



SITE PLAN
JENSEN CREEK
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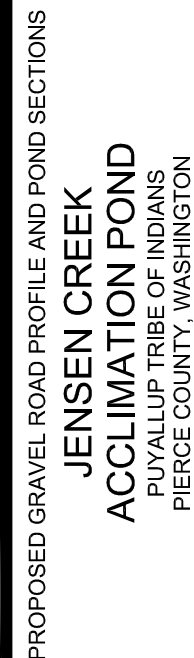
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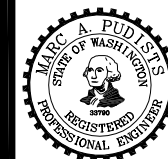
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SHEET NAME

C1
SHEET 3 OF 10



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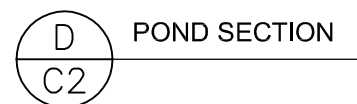
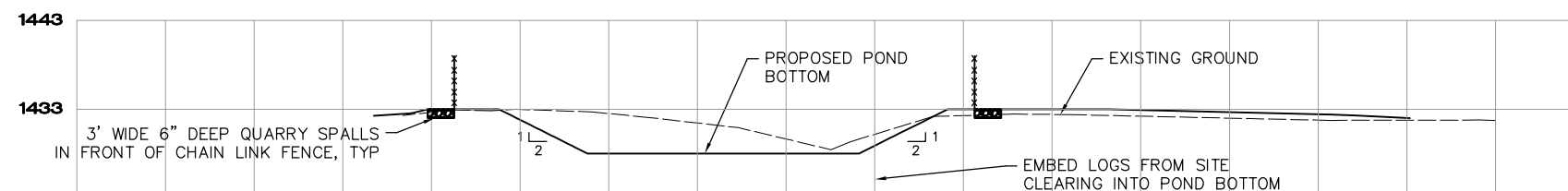
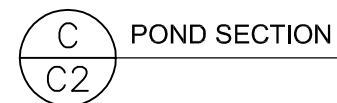
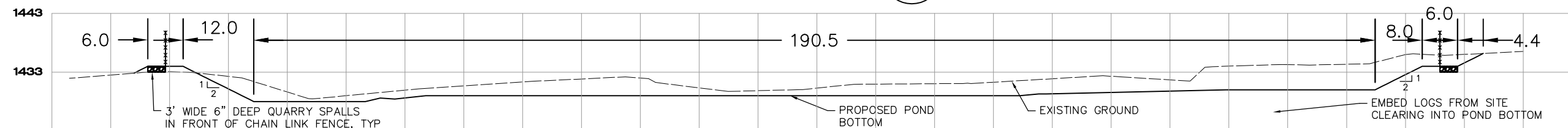
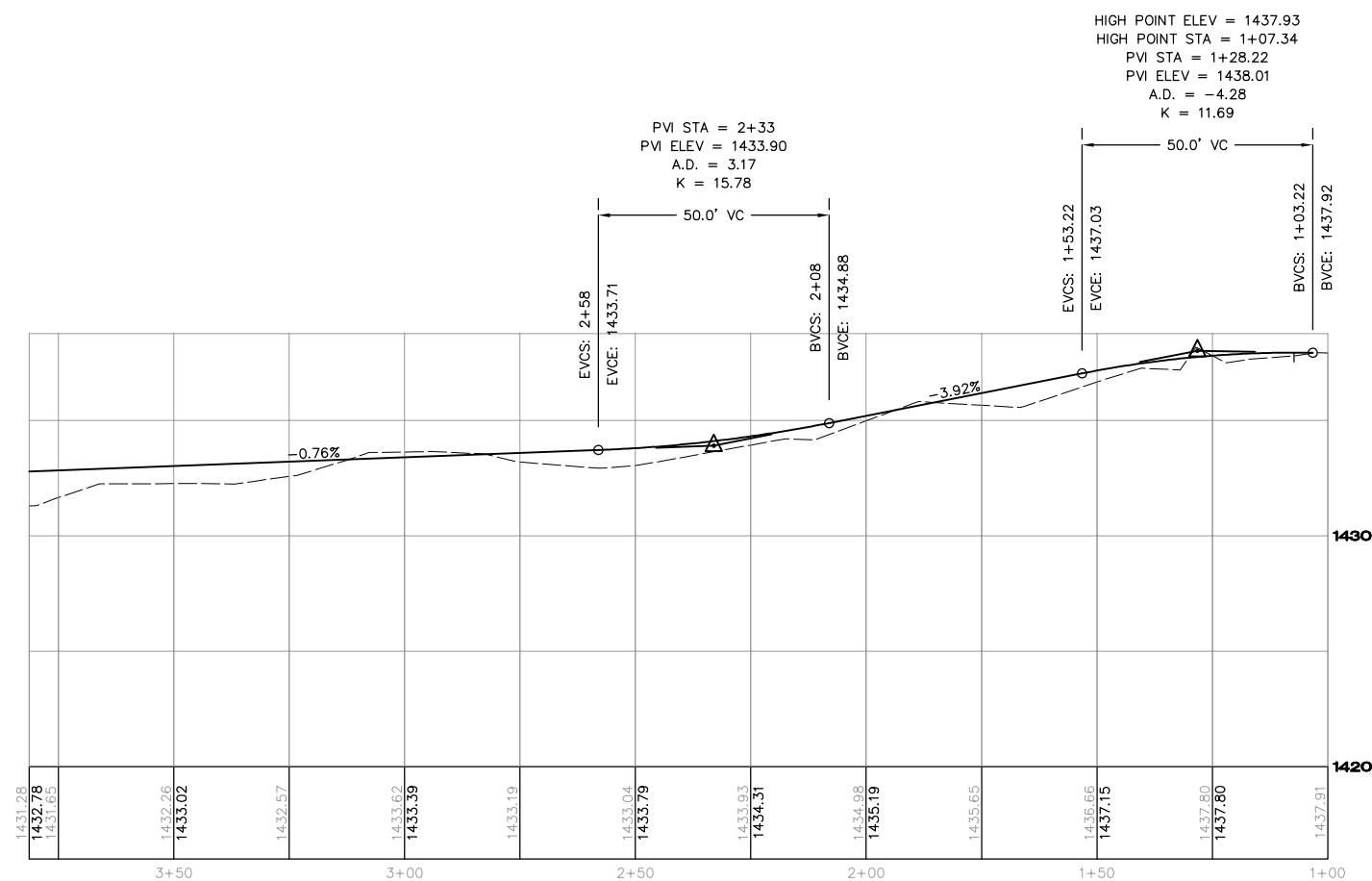
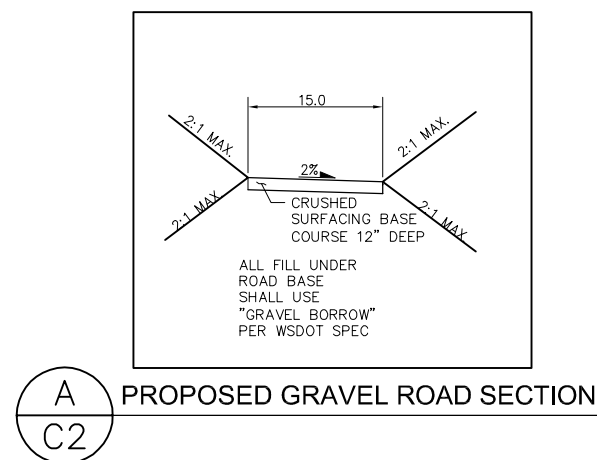
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SHEET NAME

C2
SHEET 4 OF 10



PRELIMINARY
60% PLANS



PROPOSED WATERLINE PROFILE
**JENSEN CREEK
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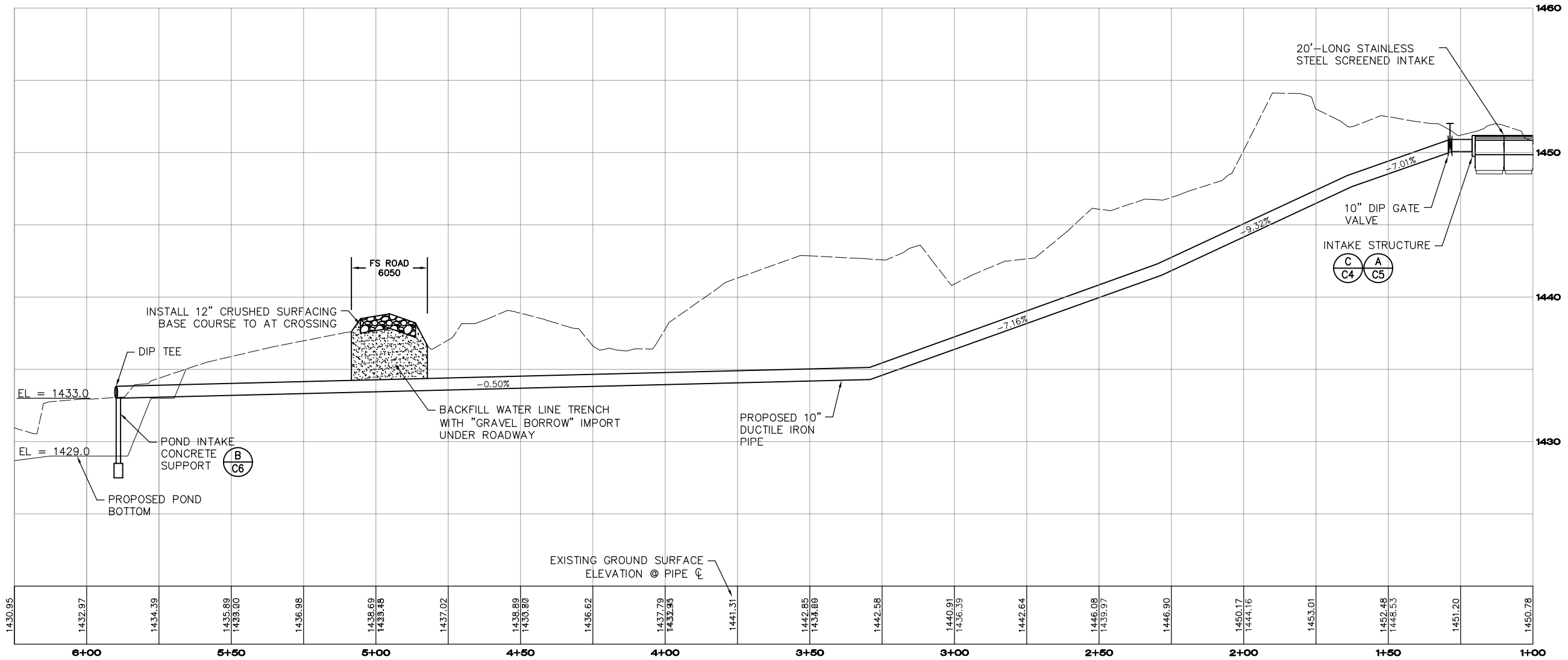
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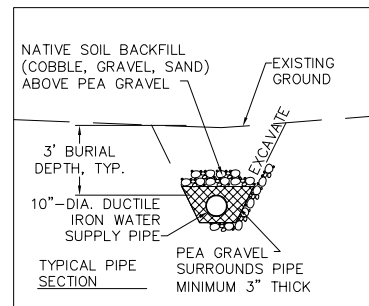
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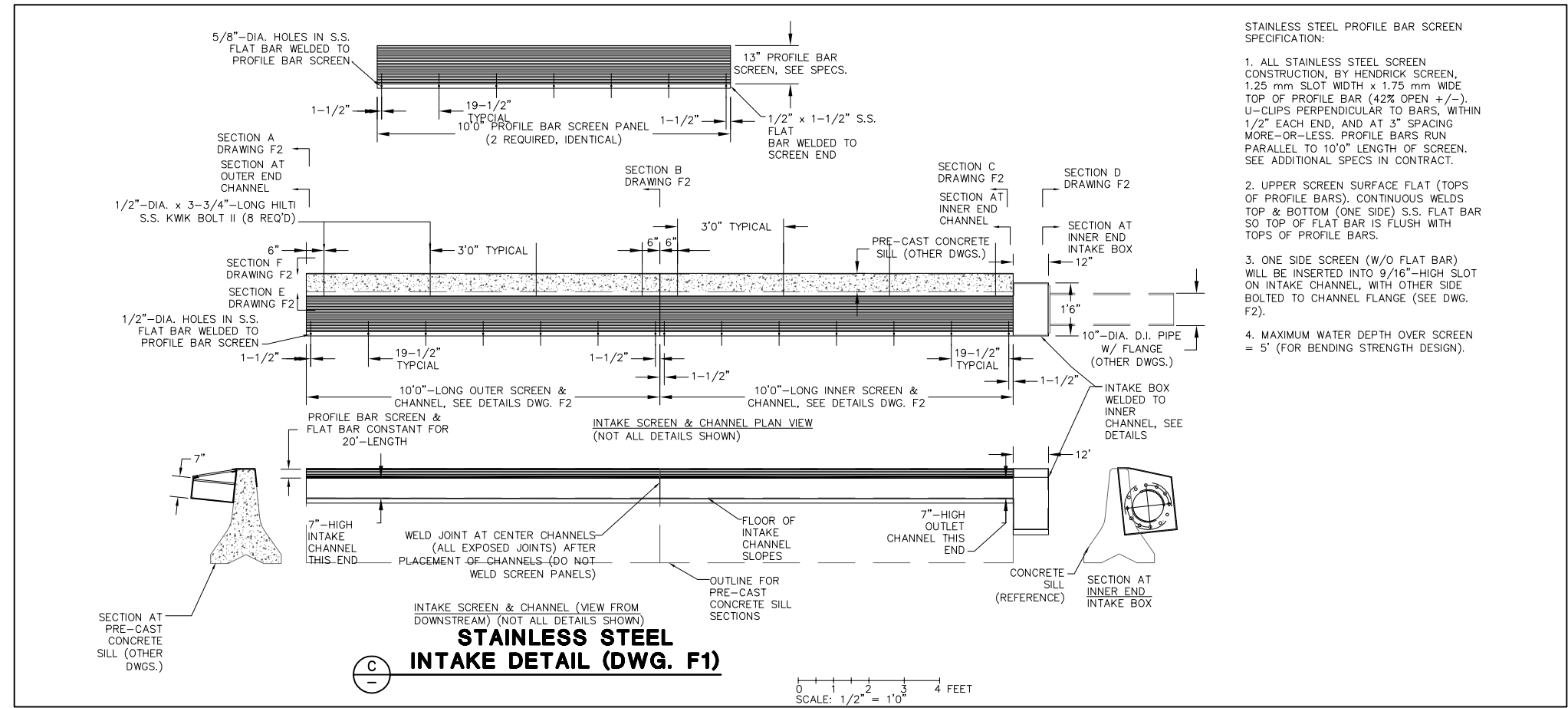
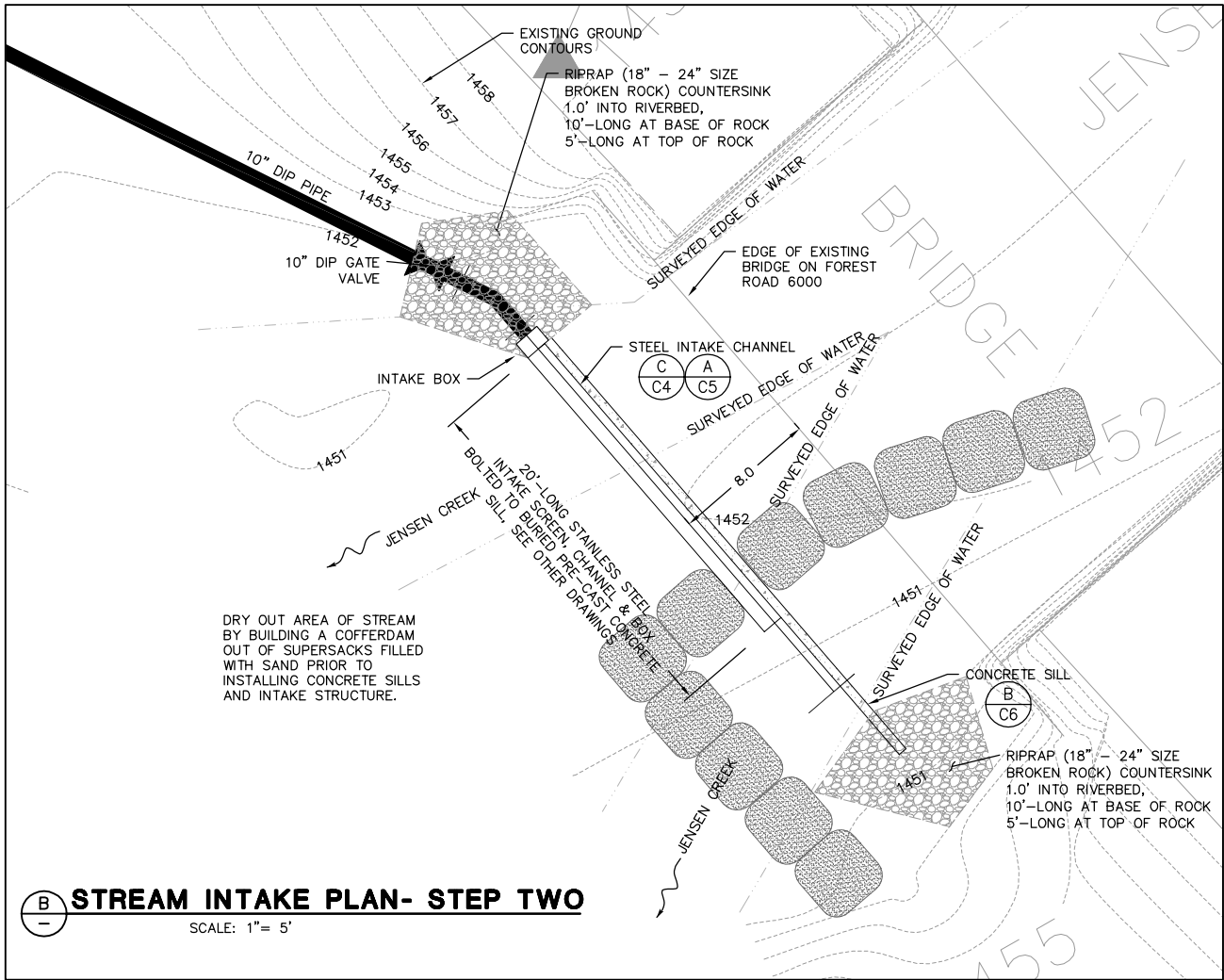
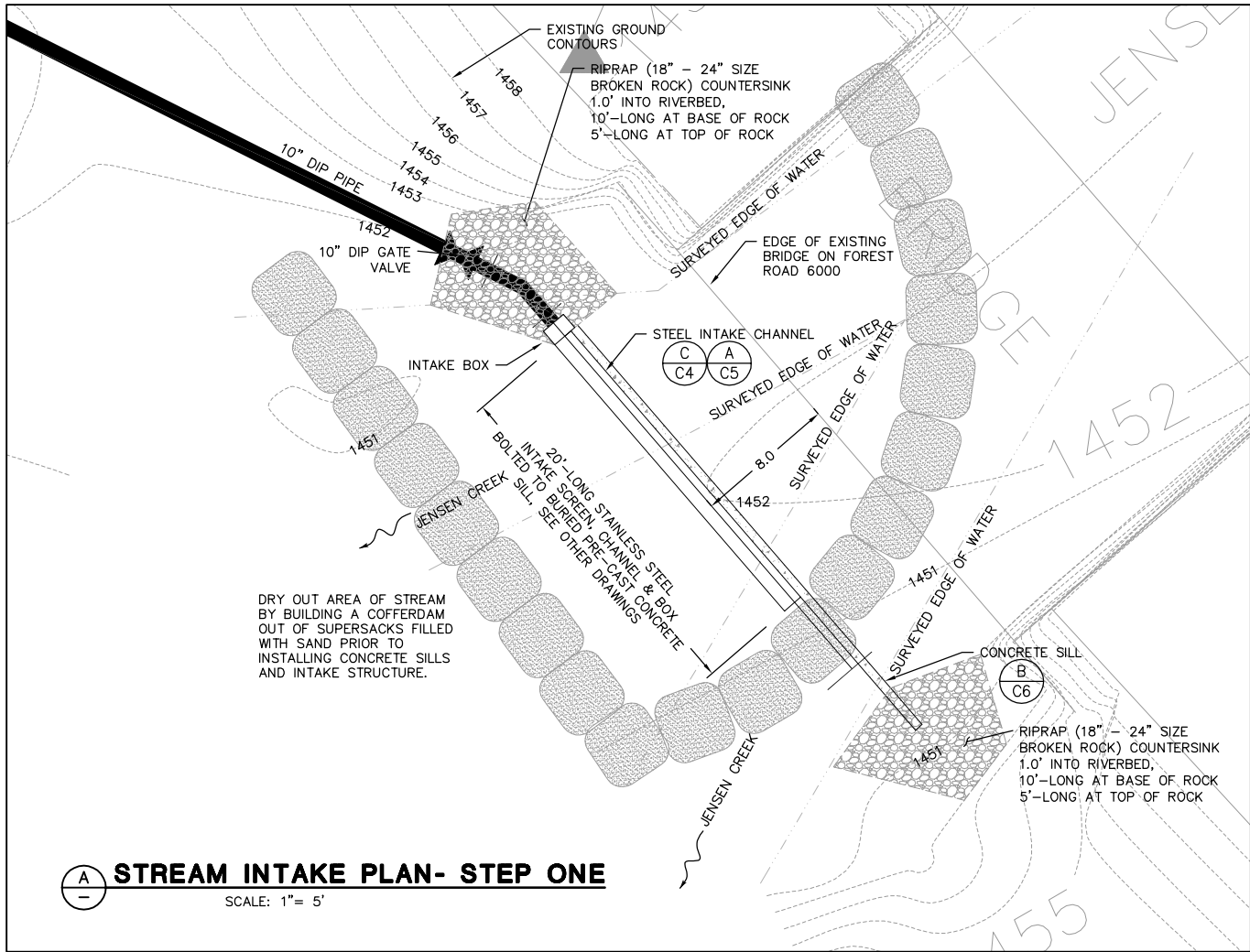


A
C3
PROPOSED WATERLINE PROFILE



B
C3
TYPICAL WATERLINE SECTION

PRELIMINARY
60% PLANS



- INTAKE CHANNEL & BOX NOTES:
- "OUTER CHANNEL" AND "INNER CHANNEL" SHALL BE TWO COMPLETELY SEPARATE FABRICATIONS, WITH THE INTAKE BOX WELDED TO ONE SIDE OF THE "INNER CHANNEL" (SEE DWGS F1 & F2).
 - FOR ON-SITE ASSEMBLY, SET PRE-CAST CONCRETE SILL SECTIONS FIRST, THEN PLACE "INNER CHANNEL" WITH INTAKE BOX AGAINST END OF CONCRETE PIECE. ATTACH "INNER CHANNEL" TO CONCRETE WITH ANCHOR BOLTS (SEE NOTE BELOW), THEN PLACE AND ANCHOR "OUTER CHANNEL". OUTER CHANNEL BUTTS UP TO INNER CHANNEL WITH 1/16"-WIDE GAP +/-, WELD EXPOSED JOINTS BETWEEN INNER AND OUTER CHANNEL PLATES.
 - ATTACH CHANNELS TO CONCRETE WITH EIGHT 1/2"-DIA. x 3-3/4" LONG S.S. ANCHOR BOLTS, SEE DWG. F1.
 - BOLT DUCTILE IRON PIPE FLANGE TO INTAKE BOX WITH DUCTILE IRON SPOOL & FLANGE COMPLETELY SUPPORTED. THEN INSERT SCREEN PANELS AND BOLT TO CHANNEL ASSEMBLIES.
 - BOLTS TO ATTACH SCREEN PANELS = FOURTEEN 3/8"-DIA. x 1-1/2" LONG S.S. HEX HEAD BOLTS.



WATER INTAKE PLAN AND DETAILS
**JENSEN CREEK
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PIERCE COUNTY, WASHINGTON

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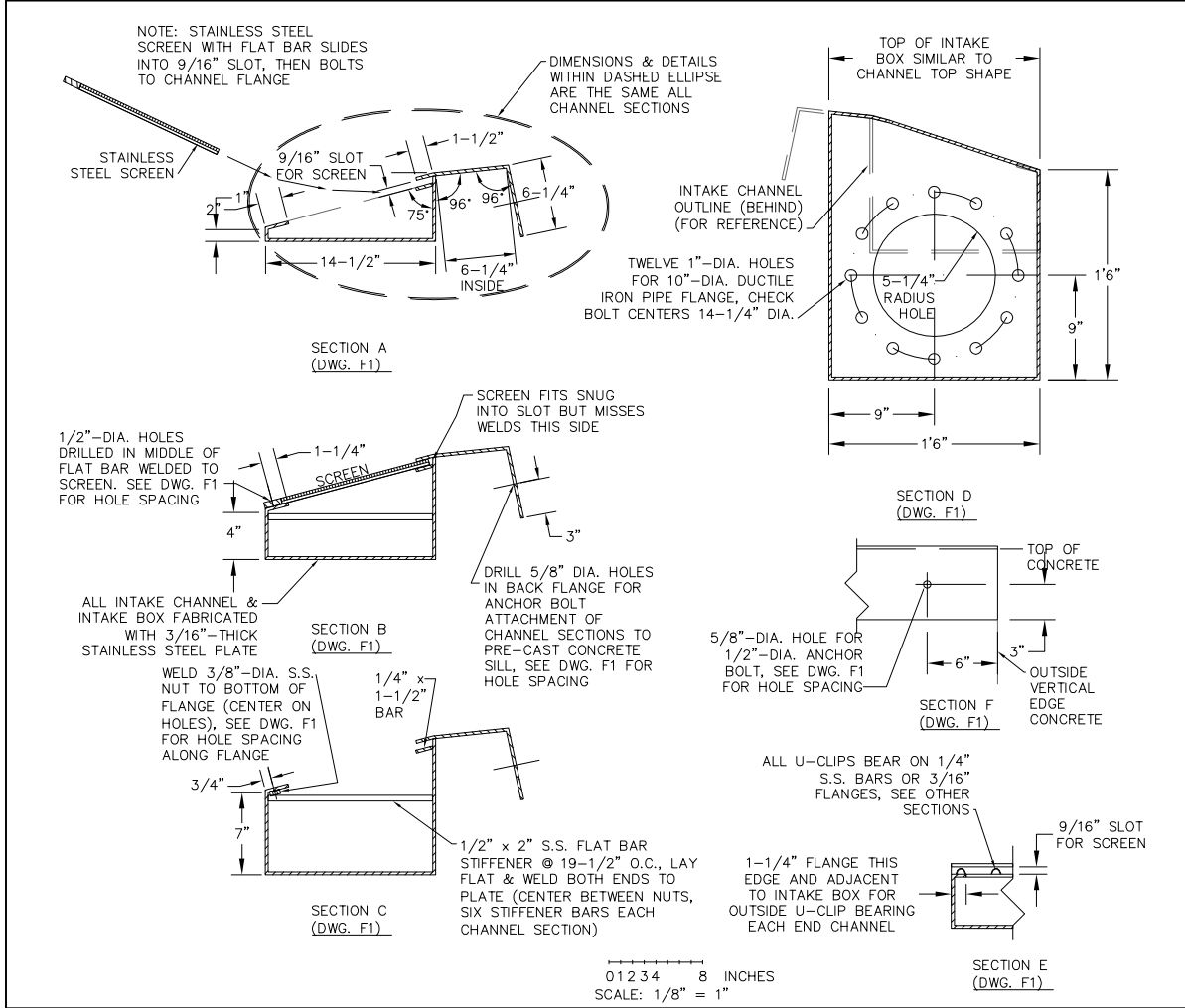
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SHEET 6 OF 10

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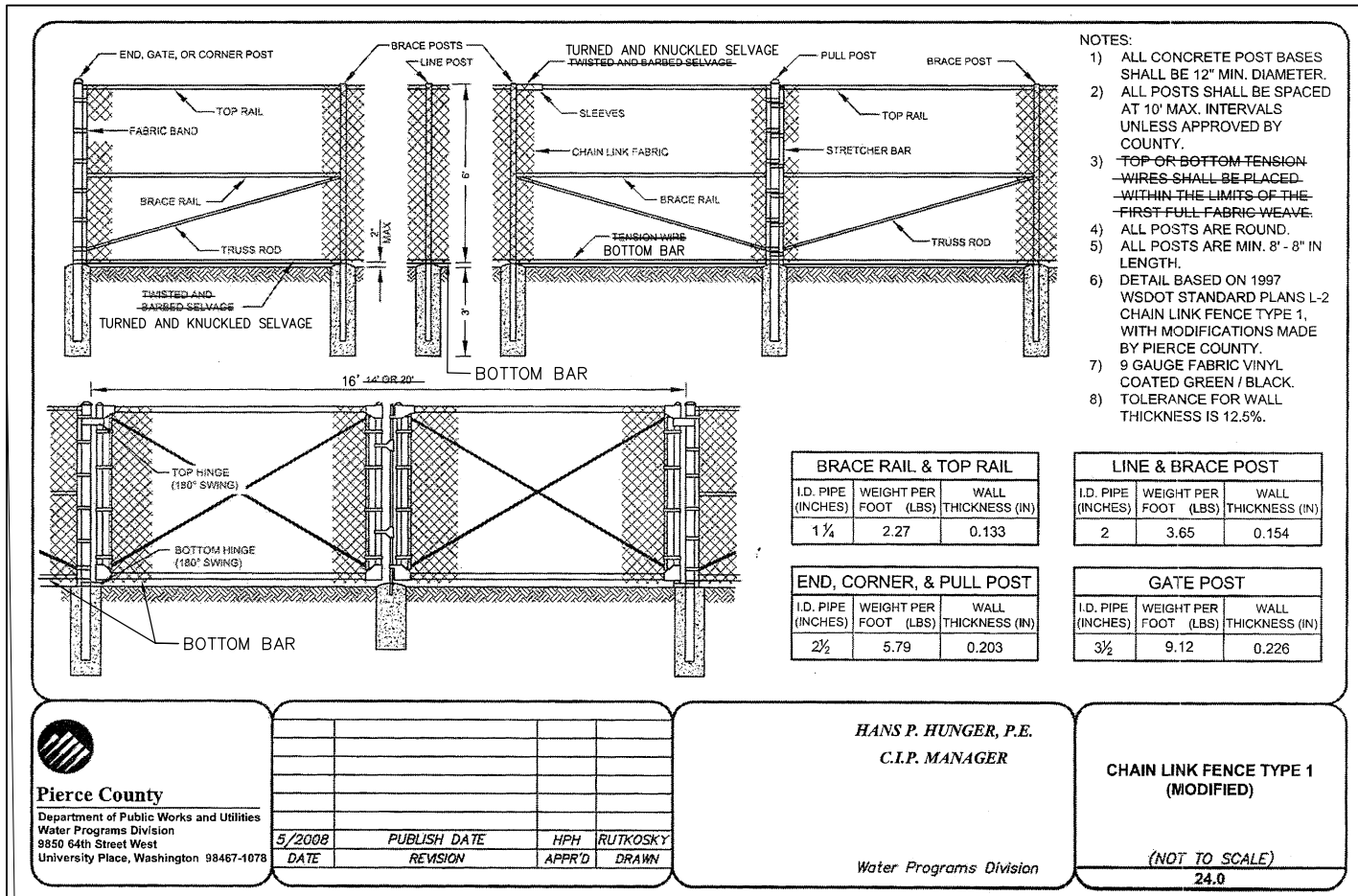
STAINLESS STEEL INTAKE DETAIL (DWG. F2)

INTAKE CHANNEL & BOX NOTES:

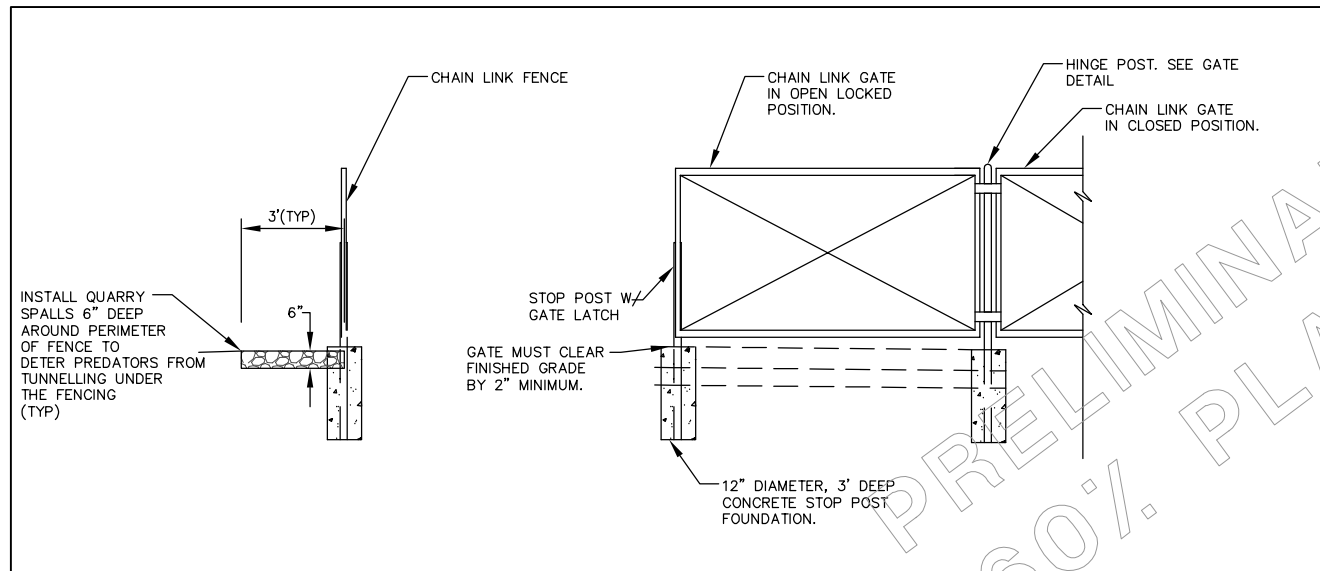
- "OUTER CHANNEL" AND "INNER CHANNEL" SHALL BE TWO COMPLETELY SEPARATE FABRICATIONS, WITH THE INTAKE BOX WELDED TO ONE SIDE OF THE "INNER CHANNEL" (SEE DWGS F1 & F2).
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FENCING NOTES

- ALL FENCE HARDWARE, FABRIC, AND POSTS SHALL BE BLACK VINYL CLAD OR BLACK POWDER COATED.
- ALL METALS SHALL BE HOT-DIP GALVANIZED PRIOR TO COATING.
- FENCE SHALL BE TURNED & KNUCKLED SELVAGE TOP AND BOTTOM.
- MAXIMUM FENCE POST SPACING SHALL BE TEN FEET ON CENTER.
- ALL POSTS SHALL BE SET IN 3' DEEP 12" DIAMETER CONCRETE FOUNDATIONS.



CHAIN LINK FENCE AND GATE



CHAIN LINK FENCE SECTION



WATER INTAKE DETAILS
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SCALE: 1"=30'

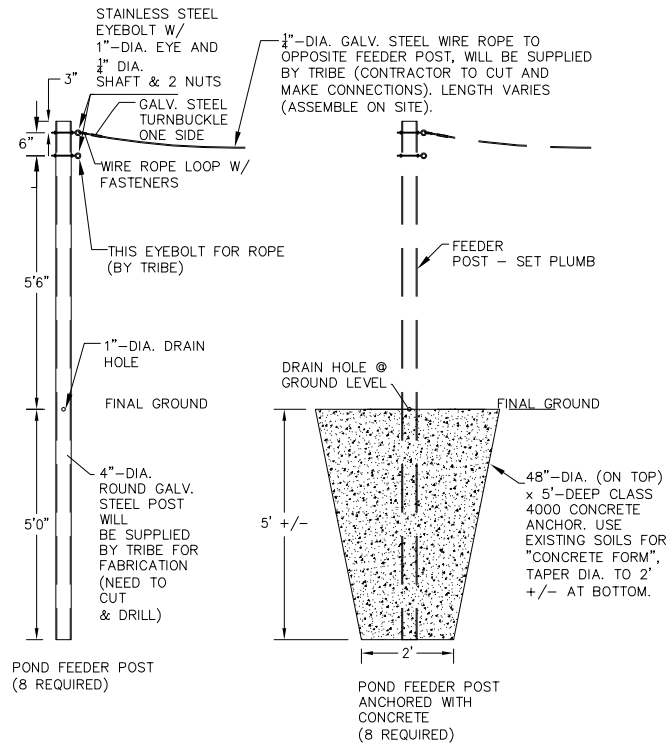
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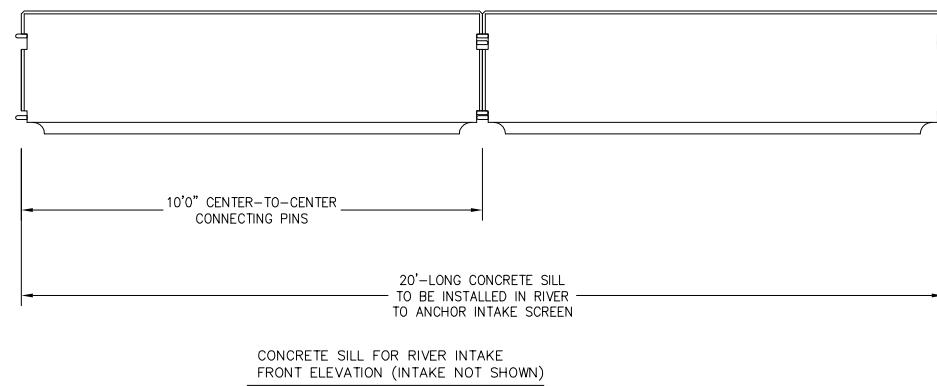
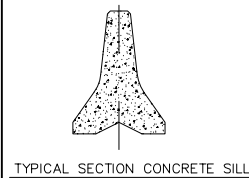
SHEET NAME

C5

SHEET 7 OF 10



A FEEDER POST & FOUNDATION

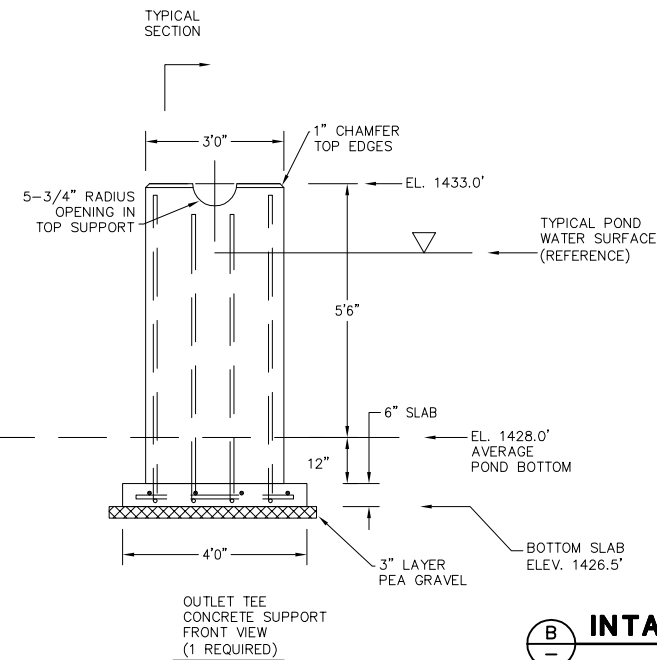
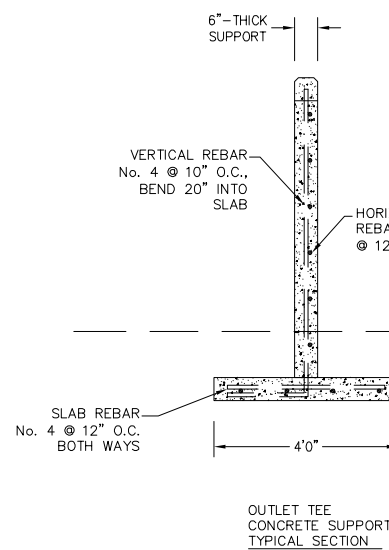
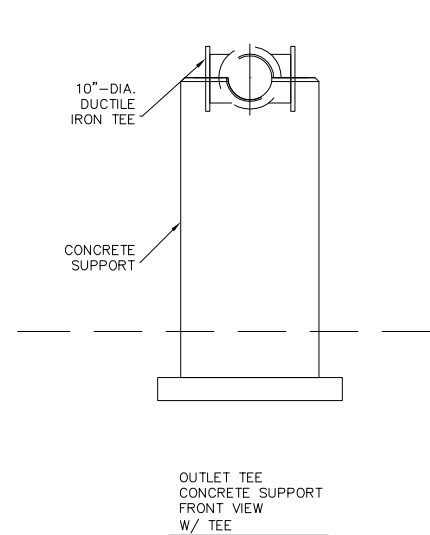
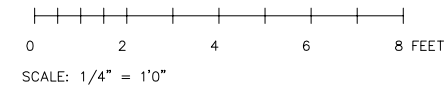


CONCRETE SILL FOR RIVER INTAKE:

1. PRE-CAST CONCRETE SECTIONS FOR THE INTAKE SILL SHALL BE WSDOT CONCRETE BARRIER TYPE 2, AS SHOWN WSDOT STANDARD PLAN C-8, WITH MINOR CHANGES LISTED BELOW (2 SECTIONS REQUIRED):
2. WIRE ROPE LOOPS SHALL BE GALVANIZED STEEL, MINIMUM DIA. = 3/8".
3. CONNECTING PINS SHALL BE 1"-DIAMETER STEEL ROUND ROD 2'8"-LONG (1 REQ'D).

CONCRETE SUPPORT FOR PIPELINE TEE:

1. CONCRETE 4,000 PSI COMPRESSIVE STRENGTH, GRADE 60 REBAR.
2. SUPPORT MAY BE PRE-CAST OR CAST-IN-PLACE.

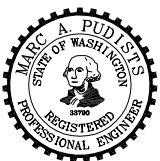


B CONCRETE INTAKE/OUTLET DETAILS



MISCELLANEOUS DETAILS
JENSEN CREEK
ACCLIMATION POND
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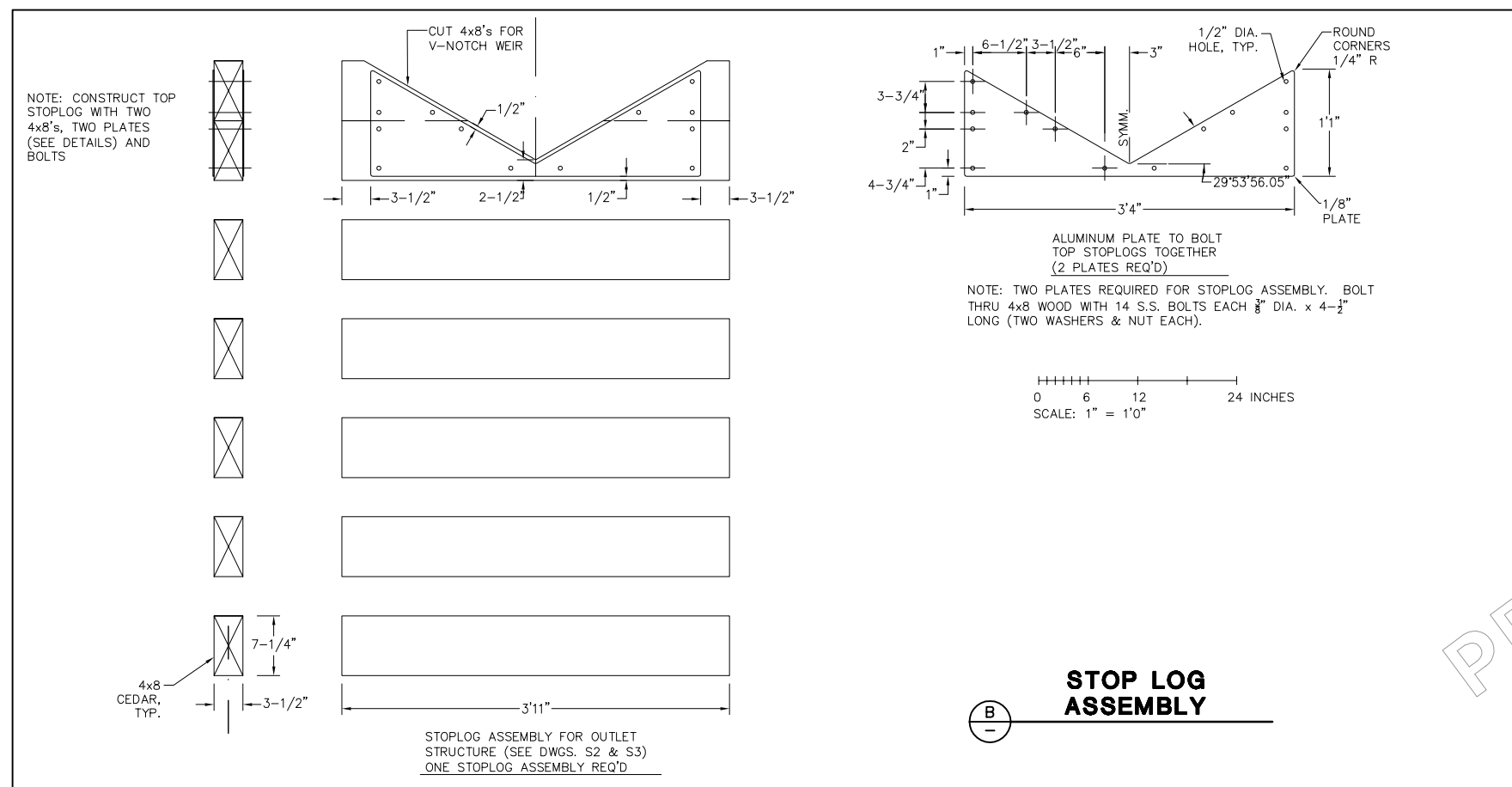
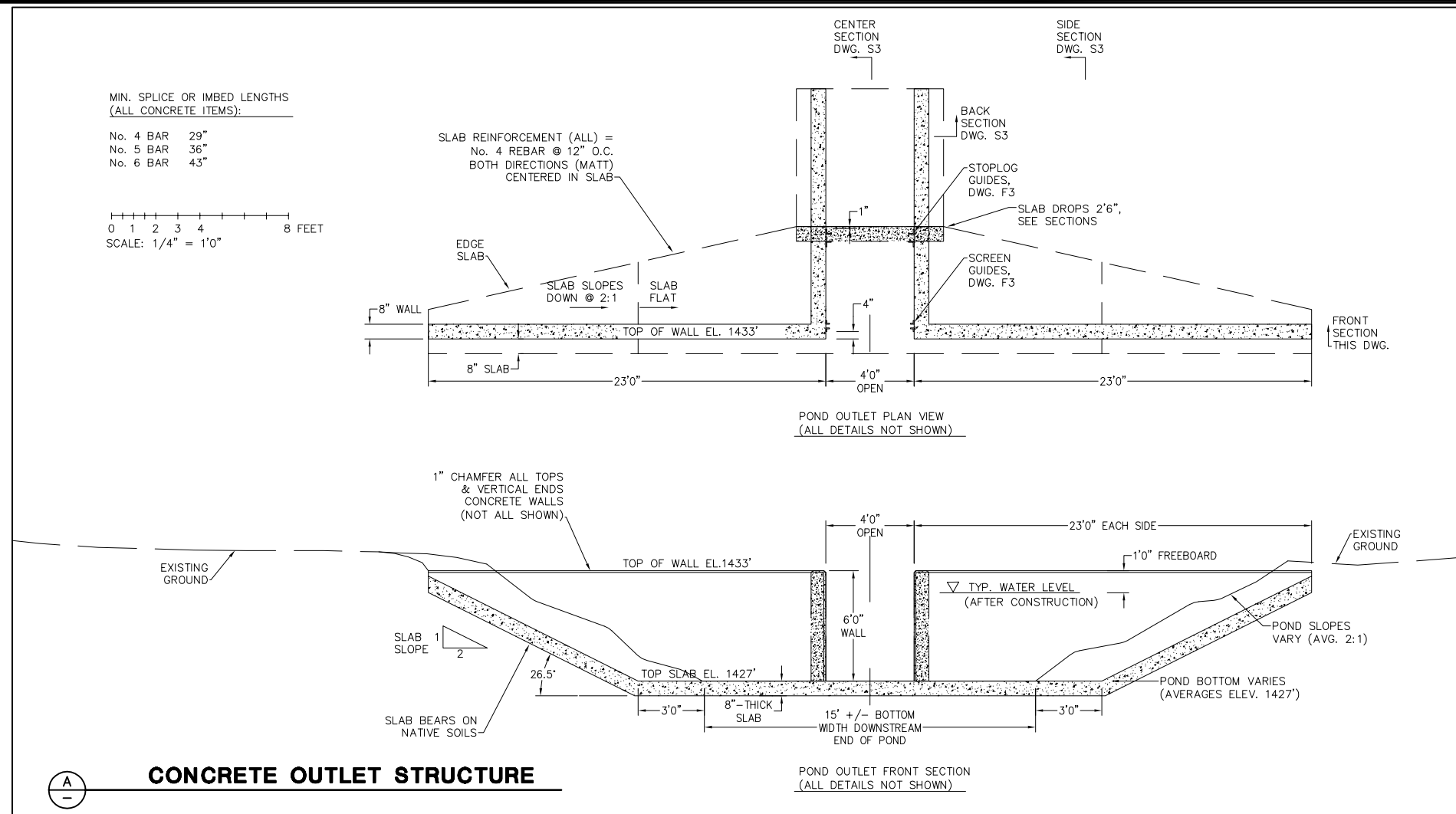
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SHEET NAME

C6

SHEET 8 OF 10

PRELIMINARY
60% PLANS



OUTLET DETAIL

**JENSEN CREEK
ACCLIMATION POND**

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SHEET NAME

S1

SHEET 9 OF 10



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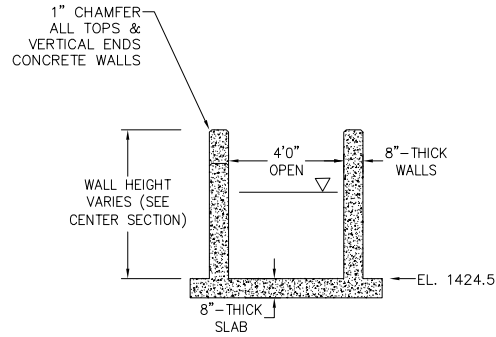
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SHEET 10 OF 10

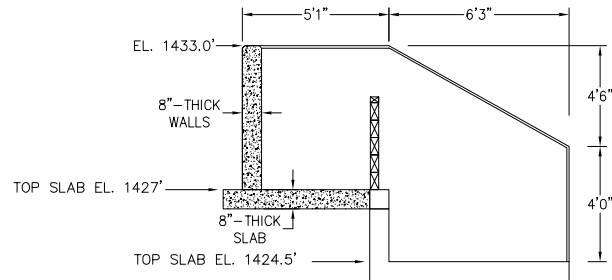
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SCALE: 1/4" = 1'0"

VERTICAL WALL REINFORCEMENT:

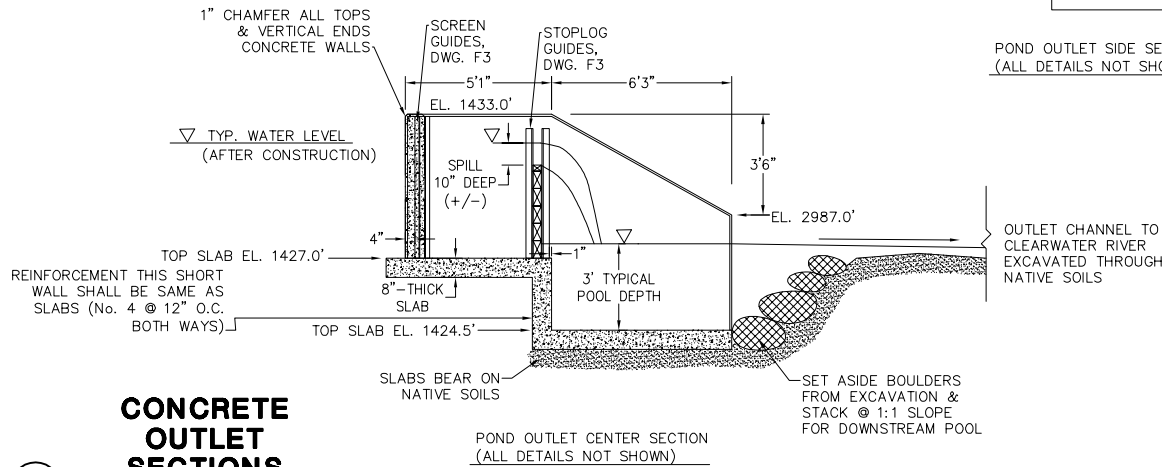
1. VERTICAL REINFORCEMENT = No. 6 BAR @ 12" O.C. WITH 43"-LONG HORIZONTAL EXTENSION INTO SLAB, OR HORIZONTAL EXTENSION TO EQUAL VERTICAL DIMENSION (FOR SHORT WALL AREAS). VERTICAL REINFORCEMENT TO WITHIN 3" TOP OF WALL. ALL WALLS UNLESS NOTED.
2. HORIZONTAL REINFORCEMENT = No. 4 BAR @ 12" O.C. ALL WALL SECTIONS, EXTEND TO WITHIN 3" OF WALL EDGES.



POND OUTLET BACK SECTION
(ALL DETAILS NOT SHOWN)



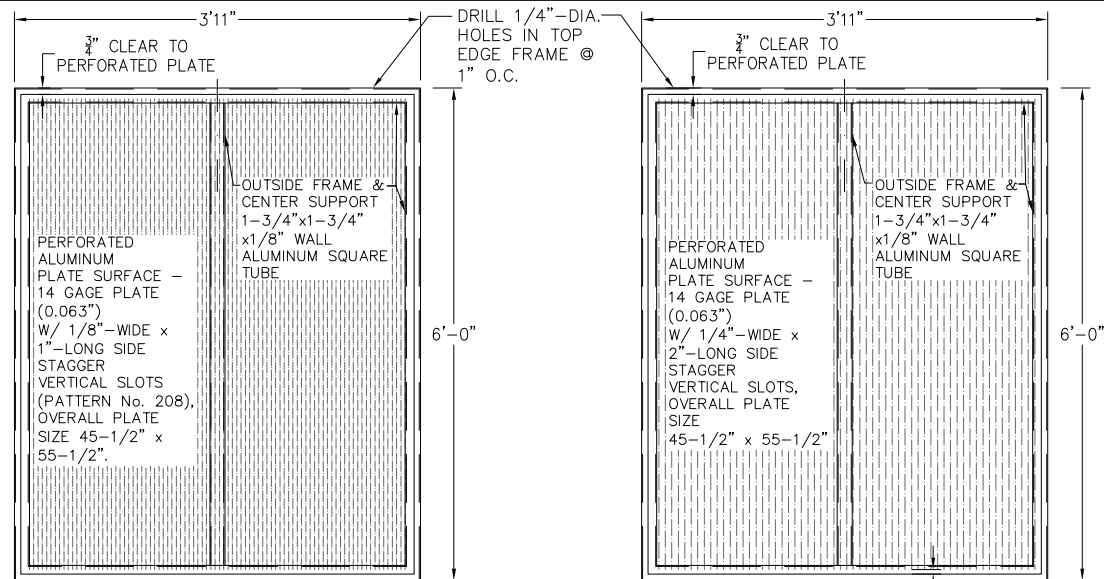
POND OUTLET SIDE SECTION
(ALL DETAILS NOT SHOWN)



POND OUTLET CENTER SECTION
(ALL DETAILS NOT SHOWN)

**CONCRETE
OUTLET
SECTIONS**

A

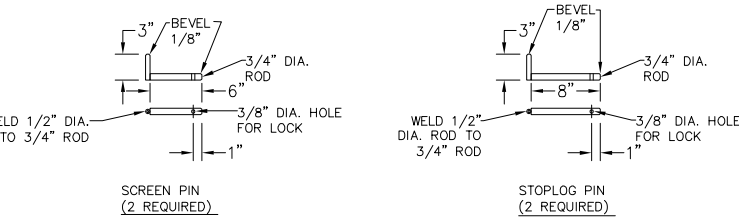


SCREEN WELD NOTES:

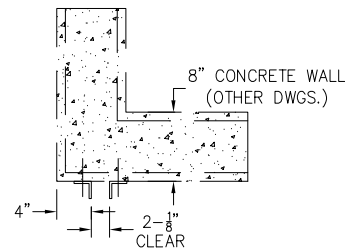
1. CONTINUOUS WELDS TO JOIN PIECES OF TUBE FRAME.
2. CONTINUOUS WELDS TO ATTACH PERFORATED PLATES TO FRAME. GRIND SMOOTH.

B

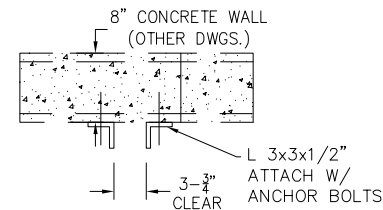
ALUMINUM SCREENS AND GUIDES



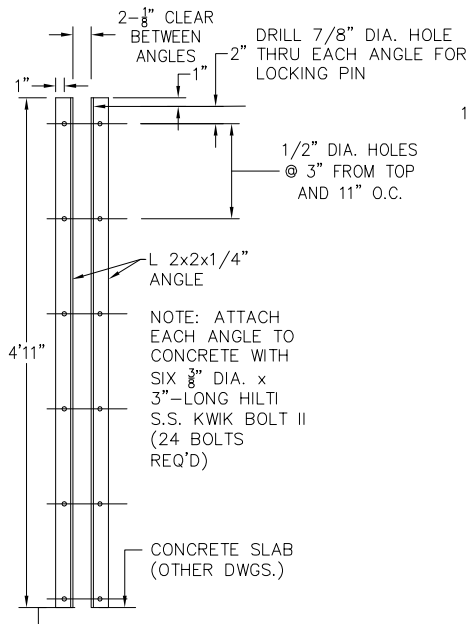
STAINLESS STEEL LOCKING PINS



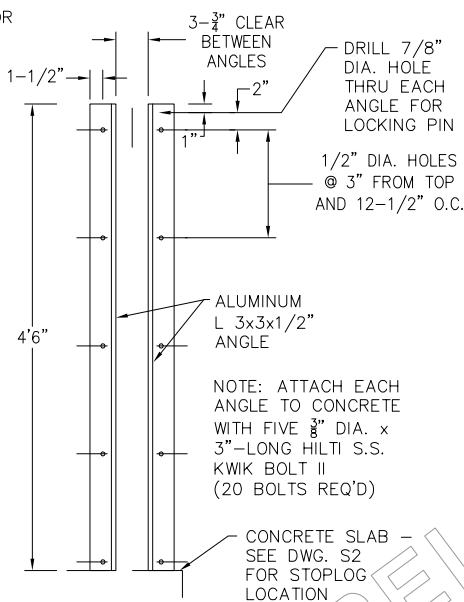
POND OUTLET SCREEN GUIDES
TOP VIEW



STOPLOG GUIDES
TOP VIEW



ALUMINUM SCREEN GUIDES
FOR OUTLET STRUCTURE
(2 PAIR GUIDES REQUIRED)



WOOD STOPLOG GUIDES
FOR OUTLET STRUCTURE
(2 PAIR GUIDES REQUIRED)

0 6 12 24 INCHES
SCALE: 1" = 1'0"